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PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/928,457

DATE: 10/17/2001
TIME: 02:28:01

INPUT SET: S36641.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT:

(A) NAME : I.N.S.E.R.M
(B) STREET : 101, rue de Tolbiac
(C) CITY : PARIS CEDEX 13
(E) COUNTRY : FRANCE
(F) POSTAL CODE (ZIP): 75654

(A) NAME : Max-Planck-Gesellschaft zur F"rderung
des Wissenschaften e. V., Berlin
(B) STREET :Hofgartenstrasse 2
(C) CITY : Mnich
(E) COUNTRY:Germany
(F) POSTAL CODE (ZIP): 80539

(A) NAME : SMITHKLINE BEECHAM
(B) STREET: New Horizons Court
(C) CITY : Brentford
(D) COUNTY: Middlesex
(E) COUNTRY :Great-Britain
(F) POSTAL CODE (ZIP): TW 89 EP

(ii) TITLE OF THE INVENTION: DNA, specific proteins and peptides
of the Neisseria meningitidis species bacteria, method
for obtaining them and their biological application.

(iii) NUMBER OF SEQUENCES: 99

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (OEB)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/928,457
(B) FILING DATE: 2001-08-14

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 09/214,759
(B) FILING DATE: 199-12-10

(2) INFORMATION FOR SEQ ID NO: 1:

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/928,457DATE: 10/17/2001
TIME: 02:28:01

INPUT SET: S36641.raw

47

48

(i) SEQUENCE CHARACTERISTICS:

49

(A) LENGTH: 257 base pairs

50

(B) TYPE: nucleotide

51

(C) STRANDEDNESS: single

52

(D) TOPOLOGY: linear

53

54

(ii) MOLECULE TYPE: DNA (genomic)

55

56

(vi) ORIGINAL SOURCE:

57

(A) ORGANISM: Neisseria meningitidis

58

(B) STRAIN: Z2491

59

60

61

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

62

63

GATCCGCTGC CGGCAGACGA ATATCAAGAC ATCTTCGATT TTATGAAACA GTATGACTTG 60

64

65

TCTTACCCGT ATGAATATCT GCAGGATTGG ATAGATTACT ATACGTTCAA AACCGATAAG 120

66

67

CTGGTATTTG GTAACGCGAA GCGAGAGTGA GCCGTAAAC TCTGAGCTCC TGTTTTATAG 180

68

69

ATTACAACCT TAGGCCGTCT TAAAGCTGAA AGATTTTCGA AAGCTATAAA TTGAAGCCCT 240

70

71

TCCACAGTAC ATAGATC 257

72

73

74

(2) INFORMATION FOR SEQ ID NO: 2:

75

76

(i) SEQUENCE CHARACTERISTICS:

77

(A) LENGTH: 276 base pairs

78

(B) TYPE: nucleotide

79

(C) STRANDEDNESS: single

80

(D) TOPOLOGY: linear

81

82

(ii) MOLECULE TYPE: DNA (genomic)

83

84

(vi) ORIGINAL SOURCE:

85

(A) ORGANISM: Neisseria meningitidis

86

(B) STRAIN: Z2491

87

88

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

89

90

GATCATGTTC AAATAGATAG GCATGGGAAG CTGCAGCTCT AACGTCCATG AAAATATGTT 60

91

92

GCATAGCTGC AAGCGGAACG CCTTTTCTTT CATCTACATA ATCTATAGAG TCAAGGCAAC 120

93

94

CGCTATTGAA ATTAGCAGTA TTGCCTATGA TTACATTAGT AATATGCTCA TACCATTTTT 180

95

96

GGGTGGTCAT CATATTGTGC CCCATTGTTA TCTCCTTATA TTGGTTTTAG AAGGAACTTT 240

97

98

GACAGGAAGA ATAACGGCCT TACCTGTTTG ACGATC 276

99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/928,457DATE: 10/17/2001
TIME: 02:28:02

INPUT SET: S36641.raw

100 (2) INFORMATION FOR SEQ ID NO: 3:
101

102 (i) SEQUENCE CHARACTERISTICS:

- 103 (A) LENGTH: 428 base pairs
- 104 (B) TYPE: nucleotide
- 105 (C) STRANDEDNESS: single
- 106 (D) TOPOLOGY: linear

107
108 (ii) MOLECULE TYPE: DNA (genomic)
109

110 (vi) ORIGINAL SOURCE:

- 111 (A) ORGANISM: Neisseria meningitidis
- 112 (B) STRAIN: Z2491

113
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
115

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116 GATCTGGTGG TGTTGCACA GGTAGGCGCA TACTTGTTTCG GGAAGTGGTT TGCGGCGGAT 60
117
118 AAGGGTGTTC ATGTGCTGAA TCAGCTGCGA ATCGAGCTTA TAGGGTTGTC GCTTACGCTG 120
119
120 TTTGATAGTC CGGCTTTGCC GCTGGGCTTT TTCGGCGCTG TATTGCTGCC CTTGGGTGCG 180
121
122 GTGCCGTCTG ATTTGCGGGC TGATGGTGCT TTTGTGGCGG TTAAGCTGTT TGGCGATTTC 240
123
124 GGTGACGGTG CAGTGGCGGG ACAGGTATTG GATGTGGTAT CGTTCGCCTT GGGTCAGTTG 300
125
126 CGTGTAGCTC ATGGCAATCT TTCTTGCAGG AAAGGCCGTA TGCTACCGCA TACTGGCCTT 360
127
128 TTTCTGTTAG GGAAAGTTGC ACTTCAAATG CGAATCCGCC GACCTCTTTC AGTTACAGCA 420
129
130 GCTTGATC 428
131
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132 (2) INFORMATION FOR SEQ ID NO: 4:
133

134 (i) SEQUENCE CHARACTERISTICS:

- 135 (A) LENGTH: 390 base pairs
- 136 (B) TYPE: nucleotide
- 137 (C) STRANDEDNESS: single
- 138 (D) TOPOLOGY: linear

139
140 (ii) MOLECULE TYPE: DNA (genomic)
141

142 (vi) ORIGINAL SOURCE:

- 143 (A) ORGANISM: Neisseria meningitidis
- 144 (B) STRAIN: Z2491

145
146 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
147

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148 GATCCTGCAT TGACATCGGC CTTGGCTGTC AGGGTATTGT GACCGGTAAA GTCGGCATT 60
149
150 CCGTTGGCCA ATAAGGATAC ATGACCGTCT GCAGAAACAG CATGAAGGCC GTCTGAAACG 120
151
152 ATATTGCCCT GCAATGCGGT GGTTCGAGA GCCTTGCTG CGTTCAGCTT GGTATTGCGA 180
```

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/928,457DATE: 10/17/2001
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153
154 AGCTGAATAT TGCCTTTGGC TGCCTGAATG TGCAGATTAC CCGAGTTGGT ACGCAGATTG 240
155
156 GTATTGGTAA CATTACAGCA GCCTGCCTCC ACACCCATGT CTTTGTAGGC AGTGAGGGTT 300
157
158 TTACTGGTGC CGGTAATATG GGCAGCGTTA TCCGATTTC AATGGATGCT GGCCGGCAGA 360
159
160 CAAATCTTTA TCAACATTCA AATTCAGATC 390
161
162
163 (2) INFORMATION FOR SEQ ID NO: 5:
164
165 (i) SEQUENCE CHARACTERISTICS:
166 (A) LENGTH: 177 base pairs
167 (B) TYPE: nucleotide
168 (C) STRANDEDNESS: single
169 (D) TOPOLOGY: linear
170
171 (ii) MOLECULE TYPE: DNA (genomic)
172
173 (vi) ORIGINAL SOURCE:
174 (A) ORGANISM: Neisseria meningitidis
175 (B) STRAIN: Z2491
176
177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
178
179 GATCAGATTG GTGAAGACGG TATTACCGTC AATGTTGCAG GCCGTTCTGGG ATATACGGCG 60
180
181 AAAATCGACG TGTCTCCGAG TACCGATTTC GCGGTTTATG GCCATATTGA AGTTGTACGG 120
182
183 GGTGCAACGG GGTGACCCA ATCCAATTCA GAGCCGGGTG GAACCGTCAA TTTGATC 177
184
185
186 (2) INFORMATION FOR SEQ ID NO: 6:
187
188 (i) SEQUENCE CHARACTERISTICS:
189 (A) LENGTH: 341 base pairs
190 (B) TYPE: nucleotide
191 (C) STRANDEDNESS: single
192 (D) TOPOLOGY: linear
193
194 (ii) MOLECULE TYPE: DNA (genomic)
195
196 (vi) ORIGINAL SOURCE:
197 (A) ORGANISM: Neisseria meningitidis
198 (B) STRAIN: Z2491
199
200 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
201
202 GATCAATGAT GCTACTATTC AAGCGGGCAG TTCCGTGTAC AGCTCCACCA AAGGCGATAC 60
203
204 TGAATTGGGT GAAAATACCC GTATTATTGC TGAAAACGTA ACCGTATTAT CTAACGGTAG 120
205

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/928,457DATE: 10/17/2001
TIME: 02:28:03

INPUT SET: S36641.raw

206 TATTGGCAGT GCTGCTGTAA TTGAGGCTAA AGACACTGCA CACATTGAAT CGGGCAAACC 180
207
208 GCTTTCTTTA GAAACCTCGA CCGTTGCCTC CAACATCCGT TTGAACAACG GTAACATTAA 240
209
210 AGGCGGAAAG CAGCTTGCTT TACTGGCAGA CGATAACATT ACTGCCAAAA CTACCAATCT 300
211
212 GAATACTCCC GGCAATCTGT ATGTTCATAC AGGTAAAGAT C 341
213
214 (2) INFORMATION FOR SEQ ID NO: 7:
215
216 (i) SEQUENCE CHARACTERISTICS:
217 (A) LENGTH: 164 base pairs
218 (B) TYPE: nucleotide
219 (C) STRANDEDNESS: single
220 (D) TOPOLOGY: linear
221
222 (ii) MOLECULE TYPE: DNA (genomic)
223
224 (vi) ORIGINAL SOURCE:
225 (A) ORGANISM: Neisseria meningitidis
226 (B) STRAIN: Z2491
227
228 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
229
230 GATCCAAC TG TTTGATTTTA CTGGCTGCTT CTCCATGCGC GGTATTGACC AAAGCCGCAA 60
231
232 GGATATTCGC TTCCAGATTG TCTTTCAGGC TGCCGCCGTT GACAGCGGTA TTAATCAGTG 120
233
234 CGGCACTGCC CGCATTGGCT AGGTTGACGG TCAGGTTGTT GATC 164
235
236
237 (2) INFORMATION FOR SEQ ID NO: 8:
238
239 (i) SEQUENCE CHARACTERISTICS:
240 (A) LENGTH: 219 base pairs
241 (B) TYPE: nucleotide
242 (C) STRANDEDNESS: single
243 (D) TOPOLOGY: linear
244
245 (ii) MOLECULE TYPE: DNA (genomic)
246
247 (vi) ORIGINAL SOURCE:
248 (A) ORGANISM: Neisseria meningitidis
249 (B) STRAIN: Z2491
250
251 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
252
253 GATCAATCAC ACATCTTGTC ATTTTTTCGA TTCCTTCATT TCGGTTTCTA ATGTTTCAAT 60
254
255 TCTTGCGGCC ATTTCTGAA TGGCTTTAGT CAAAACGGGG ATGAACGCTT CGTATTTCGAC 120
256
257 GGTGTAGGTA TCGTTTGTTT TATTTACCAT CGGCAATCGA CCATATTCAT CTTCCAGCGC 180
258

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/928,457DATE: 10/17/2001
TIME: 02:28:03**INPUT SET: S36641.raw**

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME : I.N.S.E.R.M
7	Unknown or Misplaced Identifier	(B) STREET : 101, rue de Tolbiac
8	Unknown or Misplaced Identifier	(C) CITY : PARIS CEDEX 13
9	Unknown or Misplaced Identifier	(E) COUNTRY : FRANCE
10	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 75654
12	Unknown or Misplaced Identifier	(A) NAME : Max-Planck-Gesellschaft zur F
14	Unknown or Misplaced Identifier	(B) STREET :Hofgartenstrasse 2
15	Unknown or Misplaced Identifier	(C) CITY : M nich
16	Unknown or Misplaced Identifier	(E) COUNTRY:Germany
17	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 80539
19	Unknown or Misplaced Identifier	(A) NAME : SMITHKLINE BEECHAM
20	Unknown or Misplaced Identifier	(B) STREET: New Horizons Court
21	Unknown or Misplaced Identifier	(C) CITY : Brentford
22	Unknown or Misplaced Identifier	(D) COUNTY: Middlesex
23	Unknown or Misplaced Identifier	(E) COUNTRY :Great-Britain
24	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): TW 89 EP

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/09/928,457

DATE: 10/17/2001
TIME: 02:28:03

INPUT SET: S36641.raw

ADDRESSEE
STREET
CITY
STATE
COUNTRY
ZIP
CORRESPONDENCE ADDRESS
CLASSIFICATION

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/928,457DATE: 10/17/2001
TIME: 02:28:03

INPUT SET: S36641.raw

Line	Original Text	Corrected Text
26	(ii) TITLE OF THE INVENTION: DNA, specific pr	(ii) TITLE OF INVENTION: DNA, specific protei
2665	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2685	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2704	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2724	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2742	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2761	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2779	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2798	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2819	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2838	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2856	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2875	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2893	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2912	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2932	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2952	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2972	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2979	(2) INFORMATION FOR SEQ ID NO: 64	(2) INFORMATION FOR SEQ ID NO:64:
2991	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
2998	(2) INFORMATION FOR SEQ ID NO: 65	(2) INFORMATION FOR SEQ ID NO:65:
3010	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3029	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3052	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3077	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3102	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3131	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3145	(2) INFORMATION FOR SEQ ID NO: 71	(2) INFORMATION FOR SEQ ID NO:71:
3157	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3182	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3209	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3229	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3250	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3260	(2) INFORMATION FOR SEQ ID NO: 76	(2) INFORMATION FOR SEQ ID NO:76:
3272	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3292	(2) INFORMATION FOR SEQ ID NO: 77	(2) INFORMATION FOR SEQ ID NO:77:
3304	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3319	(2) INFORMATION FOR SEQ ID NO: 78	(2) INFORMATION FOR SEQ ID NO:78:
3331	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3356	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3358	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:
3380	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3405	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3429	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3441	(2) INFORMATION FOR SEQ ID NO: 83	(2) INFORMATION FOR SEQ ID NO:83:
3453	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO
3455	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:
3481	(iv) ANTISENSE : NO	(iv) ANTI-SENSE: NO